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Randy L. Walter
AIRPORT MAP DISPLAY SYSTEM AN

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METHOD

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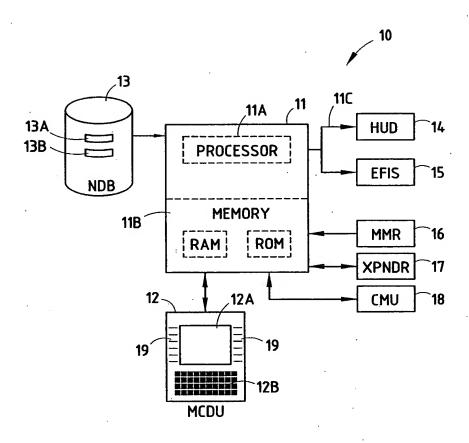


FIG. 1

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Randy I., Walter
AIRPORT MAP DISPLAY SYSTEM AND

LABEL		100 FOR	ACT TAXI	PATH	300 FOR	MOD TAXI	PATH	040 FOR	TAXIWAY	300 FOR	RUNWAY	
RESOLUTION	.00017 DEG	20 BITS .00017 DEG	20 BITS .00017 DEG	20 BITS .00017 DEG	.0439 DEG	.0078125 nm	12 BITS .0439 DEG	20 BITS .00017 DEG	.00017 DEG		20 BITS .00017 DEG	20 BITS .00017 DEG
RANGE	20 BITS	20 BITS	20 BITS	20 BITS	12 BITS	15 BITS	12 BITS	20 BITS	20 BITS		20 BITS	20 BITS
DATA	LATITUDE POINT 1	LONGITUDE POINT 1	LATITUDE POINT 2	LONGITUDE POINT 2	CONIC SUBTENDED ANGLE	CONIC RADIUS	CONIC INITIAL ANGLE	LATITUDE POINT 3	LONGITUDE POINT 3		00 LATITUDE POINT 1	LONGITUDE POINT 1
SSΣ	2	00	00	00	11	11	11	8	00	• •	00	10
WORD #	-	2	m	7	2	9	7	5	#	• •	z	N + 1

		Y IDENT FIG.		
LABEL	.00017 DEG 104 FOR RUNWAY IDENT	004 FOR RUNWAY IDENT		
RESOLUTION	.00017 DEG	.00017 DEG	I	1
RANGE	20 BITS	20 BITS	7 BITS EACH	7 BITS EACH
DATA	01 LATITUDE	00 LONGITUDE	00 TEXT (3 ASCII)	10 TEXT (3 ASCII)
SS	10	00	00	10
ORD SS # ∝				

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△ Lat = (Lat - Ref Lat) ×Earth Radius

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\DLon = (Lon - Ref Lon) \(\Cos \) ((Lat + RefLat) \(\Z \) \)

Course = Arctan (ALon/ALat)

Distance = $Sqrt(\Delta Lat^2 + \Delta Lon^2)$

Scale = Distance×10

New Lat = Ref Lat + Scale×Cos(Course)/Earth Radius

(Earth Radius×Cos ((Ref Lat + New Lat)/2 New Lon = Ref Lon + Scale×Sin (Course),

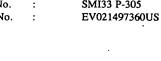
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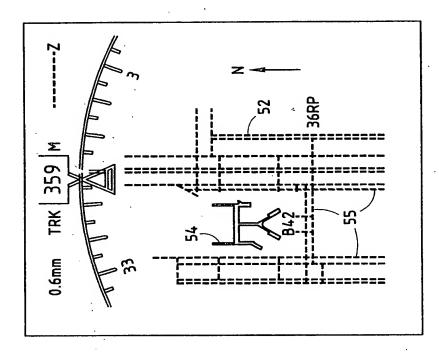
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Randy L. Walter AIRPORT MAP DISPLAY SYSTEM A METHOD SMI33 P-305

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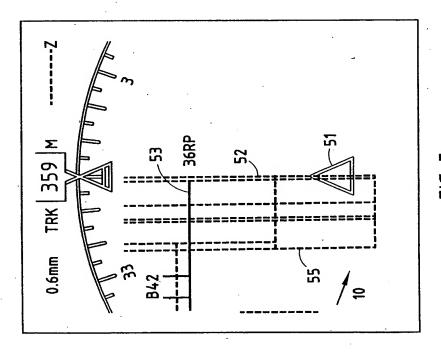


FIG. 5